

SEQUENCE LISTING

SEQ ID NO:1

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 17

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1

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10

15

Lys

SEQ ID NO:2

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 15

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

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15

SEQ ID NO:3

SEQUENCE CHARACTERISTICA**LENGTH OF THE SEQUENCE: 13****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

1

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SEQ ID NO:4**SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 29****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro

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Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

20

25

SEQ ID NO:5**SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 62**

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Ser Ser Leu Leu Thr Phe Leu Ala Trp Trp Phe Glu Trp Thr Ser Gln
 1 5 10 15
 Ala Ser Ala Gly Pro Leu Ile Gly Glu Glu Ala Arg Glu Val Ala Arg
 20 25 30
 Arg Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met
 35 40 45
 Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys
 50 55 60

SEQ ID NO:6

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 85

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Leu Pro Leu Glu Gly Gly Pro Thr Gly Arg Asp Ser Glu His Met Gln
 1 5 10 15
 Glu Ala Ala Gly Ile Arg Lys Ser Ser Leu Leu Thr Phe Leu Ala Trp
 20 25 30

Met Pro Leu Ser Pro Gly Leu Leu Leu Leu Leu Leu Ser Gly Ala Thr
1 5 10 15
Ala Thr Ala Ala Leu Pro Leu Glu Gly Gly Pro Thr Gly Arg Asp Ser
20 25 30
Glu His Met Gln Glu Ala Ala Gly Ile Arg Lys Ser Ser Leu Leu Thr
35 40 45
Phe Leu Ala Trp Trp Phe Glu Trp Thr Ser Gln Ala Ser Ala Gly Pro
50 55 60

Leu Ile Gly Glu Glu Ala Arg Glu Val Ala Arg Arg Gln Glu Gly Ala
 65 70 75 80
 Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro Cys Arg Asn Phe
 85 90 95
 Phe Trp Lys Thr Phe Ser Ser Cys Lys
 100 105

SEQ ID NO:8

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 12

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg
 1 5 10

SEQ ID NO:9

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 33

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Ser Ser Leu Leu Thr Phe Leu Ala Trp Trp Phe Glu Trp Thr Ser Gln

1

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Ala Ser Ala Gly Pro Leu Ile Gly Glu Glu Ala Arg Glu Val Ala Arg

20

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Arg

SEQ ID NO:10

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 23

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Leu Pro Leu Glu Gly Gly Pro Thr Gly Arg Asp Ser Glu His Met Gln

1

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Glu Ala Ala Gly Ile Arg Lys

20

SEQ ID NO:11

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 20

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

20

SEQ ID NO:12

SEQUENCE CHARACTERISTICS

LENGTH OF THE SEQUENCE: 88

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

1 5 10 15

Ala Thr Ala Ala Leu Pro Leu Glu Gly Gly Pro Thr Gly Arg Asp Ser

20 25 30

Glu His Met Gln Glu Ala Ala Gly Ile Arg Lys Ser Ser Leu Leu Thr

35 40 45

Phe Leu Ala Trp Trp Phe Glu Trp Thr Ser Gln Ala Ser Ala Gly Pro

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Leu Ile Gly Glu Glu Ala Arg Glu Val Ala Arg Arg Gln Glu Gly Ala

65 70 75 80

Pro Pro Gln Gln Ser Ala Arg Arg

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TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAGGAAGT TCTTCTGGAA GACCTTCTCC TCCTGCAAA

39

SEQ ID NO:16

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAGGAAGTTC 60

TTCTGGAAGA CCTTCTCCTC CTGCAAA 87

SEQ ID NO:17

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAGGAAGTTC 60

TTCTGGAAGA CCTTCTCCTC CTGCAAA 87

SEQ ID NO:18

LENGTH OF THE SEQUENCE: 186

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

AGCAGCCTCC TGACTTTCCT CGCTTGGTGG TTTGAGTGGG CCTCCCAGGC CAGTGCCGGG 60
CCCCTCATAG GAGAGGAAGC TCGGGAGGTG GCCAGGCGGC AGGAAGGCGC ACCCCCCCAG 120
CAATCCGCGC GCCGGGACAG AATGCCCTGC AGGAACTTCT TCTGGAAGAC CTTCTCCTCC 180
TGCAAA 186

SEQ ID NO:19

LENGTH OF THE SEQUENCE: 186

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

AGCAGCCTCC TGACTTTCCT CGCTTGGTGG TTTGAGTGGG CCTCCCAGGC CAGTGCCGGG 60
CCCCTCATAG GAGAGGAAGC TCGGGAGGTG GCCAGGCGGC AGGAAGGCGC ACCCCCCCAG 120
CAATCTGCGC GCCGGGACAG AATGCCCTGC AGGAACTTCT TCTGGAAGAC CTTCTCCTCC 180
TGCAAA 186

SEQ ID NO:20

LENGTH OF THE SEQUENCE: 255

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CTGCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 60
ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 120
AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 180
CCCCCCCAGC AATCCGCGCG CCGGGACAGA ATGCCCTGCA GGAACCTCTT CTGGAAGACC 240
TTCTCCTCCT GCAAA 255

SEQ ID NO:21

LENGTH OF THE SEQUENCE: 255

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CTGCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 60
ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 120
AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 180

CCCCCCCAGC AATCTGCGCG CCGGGACAGA ATGCCCTGCA GGAATTCTT CTGGAAGACC 240
TTCTCCTCCT GCAAA 255

SEQ ID NO:22

LENGTH OF THE SEQUENCE: 255

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCATTGT CCCCCGGCCT CCTGCTGCTG CTGCTCTCCG GGGCCACGGC CACCGCTGCC 60
CTGCCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 120
ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 180
AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 240
CCCCCCCAGC AATCCGCGCG CCGGGACAGA ATGCCCTGCA GGAATTCTT CTGGAAGACC 300
TTCTCCTCCT GCAAA 315

SEQ ID NO:23

LENGTH OF THE SEQUENCE: 315

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCATTGT CCCCCGGCCT CCTGCTGCTG CTGCTCTCCG GGGCCACGGC CACCGCTGCC 60
CTGCCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 120
ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 180
AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 240
CCCCCCCAGC AATCTGCGCG CCGGGACAGA ATGCCCTGCA GGAATTCTT CTGGAAGACC 300
TTCTCCTCCT GCAA 315

SEQ ID NO:24

LENGTH OF THE SEQUENCE: 36

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGG 36

SEQ ID NO:25

LENGTH OF THE SEQUENCE: 36

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGG 36

SEQ ID NO:26

LENGTH OF THE SEQUENCE: 99

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

AGCAGCCTCC TGA CTTTCCT CGCTTGGTGG TTTGAGTGG CCTCCCAGGC CAGTGCCGGG 60
CCCCTCATAG GAGAGGAAGC TCGGGAGGTG GCCAGGCGG 99

SEQ ID NO:27

LENGTH OF THE SEQUENCE: 69

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CTGCCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 60
ATAAGGAAA 69

SEQ ID NO:28

LENGTH OF THE SEQUENCE: 60

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCATTGT CCCCCGGCCT CCTGCTGCTG CTGCTCTCCG GGGCCACGGC CACCGCTGCC 60

SEQ ID NO:29

LENGTH OF THE SEQUENCE: 264

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCATTGT CCCCCGGCCT CCTGCTGCTG CTGCTCTCCG GGGCCACGGC CACCGCTGCC 60
CTGCCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 120
ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 180
AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 240
CCCCCCCAGC AATCCGCGCG CCGG 264

SEQ ID NO:30

LENGTH OF THE SEQUENCE: 264

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCATTGT CCCCCGGCCT CCTGCTGCTG CTGCTCTCCG GGGCCACGGC CACCGCTGCC 60
 CTGCCCCCTGG AGGGTGGCCC CACCGGCCGA GACAGCGAGC ATATGCAGGA AGCGGCAGGA 120
 ATAAGGAAAA GCAGCCTCCT GACTTTCCTC GCTTGGTGGT TTGAGTGGAC CTCCCAGGCC 180
 AGTGCCGGGC CCCTCATAGG AGAGGAAGCT CGGGAGGTGG CCAGGCGGCA GGAAGGCGCA 240
 CCCCCCAGC AATCTGCGCG CCGG 264

SEQ ID NO:31

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 14

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

1

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10

SEQ ID NO:32

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 14

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptid

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SEQUENCE

Ala Gly Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

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SEQ ID NO:33**LENGTH OF THE SEQUENCE: 42****TYPE OF THE SEQUENCE: Nucleic acid****STRANDEDNESS: Single****TOPOLOGY: Linear****MOLECULE TYPE: cDNA****SEQUENCE**

CCCTGCAAGA ACTTCTTCTG GAAAACCTTC TCCTCGTGCA AG

42

SEQ ID NO:34**LENGTH OF THE SEQUENCE: 42****TYPE OF THE SEQUENCE: Nucleic acid****STRANDEDNESS: Single****TOPOLOGY: Linear****MOLECULE TYPE: cDNA****SEQUENCE**

GCTGGCTGCA AGAACTTCTT CTGGAAGACA TTCACATCCT GT

42

SEQ ID NO:35**SEQUENCE CHARACTERISTICA**

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LENGTH OF THE SEQUENCE: 16

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

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15

SEQ ID NO:36

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 14

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

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SEQ ID NO:37

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 12

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1 5 10

SEQ ID NO:38**SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 17****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Asp Arg Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1 5 10 15

SEQ ID NO:39**SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 15****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

1 5 10 15

SEQUENCE CHARACTERISTICS

TYPE OF THE SEQUENCE: Amino acid

MOLECULE TYPE OF THE SEQUENCE: Peptide

Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys

SEQ ID NO: 41

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 16

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Asp Arg Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1 5 10 15

SEQ ID NO: 42

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 14

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1

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SEQ ID NO:43

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 12

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys

1

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SEQ ID NO:44

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 17

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1 5 10 15

SEQ ID NO:45

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 15

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1 5 10

SEQ ID NO:46

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 13

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1 5 10

SEQ ID NO:47

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 16

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Asp Arg Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

1

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SEQ ID NO:48

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 14

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Met Pro Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

1

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SEQ ID NO:49

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 12

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

1

5

10

SEQ ID NO:50**SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 17****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Asp Arg Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1

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15

SEQ ID NO:51**SEQUENCE CHARACTERISTICA****LENGTH OF THE SEQUENCE: 15****TYPE OF THE SEQUENCE: Amino acid****TOPOLOGY: Linear****MOLECULE TYPE OF THE SEQUENCE: Peptide****SEQUENCE**

Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1

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10

SEQ ID NO:52

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 13

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys

1

5

10

SEQ ID NO:53

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 16

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Asp Arg Met Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys

1

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10

15

SEQ ID NO:54

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 14

TYPE OF THE SEQUENCE: Amino acid

1 **5** **10**

SEQUENCE

1 **5** **10**

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro

1 5 10 15
Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys
20 25

SEQ ID NO:57

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 29

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro
1 5 10 15
Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys
20 25

SEQ ID NO:58

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 29

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro

1 5 10 15
Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys Lys
20 25

SEQ ID NO:59

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro
1 5 10 15
Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys
20 25

SEQ ID NO:60

SEQUENCE CHARACTERISTICA

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro

1 5 10 15
 Cys Arg Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

SEQ ID NO:61

SEQUENCE CHARACTERISTICS

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Amino acid

TOPOLOGY: Linear

MOLECULE TYPE OF THE SEQUENCE: Peptide

SEQUENCE

Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro

1 5 10 15
 Cys Lys Asn Phe Phe Trp Lys Thr Phe Thr Ser Cys
 20 25

SEQ ID NO:62

LENGTH OF THE SEQUENCE: 48

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

GACAGAATGC CCTGCAGGAA CTTCTTCTGG AAGACCTTCT CCTCCTGC

SEQ ID NO:63

LENGTH OF THE SEQUENCE: 42

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCCTGCA GGAATTCTT CTGGAAGACC TTCTCCTCCT GC

42

SEQ ID NO:64

LENGTH OF THE SEQUENCE: 36

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAGGAAGT TCTTCTGGAA GACCTTCTCC TCCTGC

36

SEQ ID NO:65

LENGTH OF THE SEQUENCE: 51

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

GACAGAATGC CCTGCAARAA CTTCTTCTGG AAGACCTTCT CTCCTGCAA A 51

SEQ ID NO:66

LENGTH OF THE SEQUENCE: 45

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCCTGCA ARAACTTCTT CTGGAAGACC TTCTCCTCCT GCAAA 45

SEQ ID NO:67

LENGTH OF THE SEQUENCE: 39

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAARAAC TCTTCTGGAA GACCTTCTCC TCCTGCAAA 39

SEQ ID NO:68

LENGTH OF THE SEQUENCE: 48

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

GACAGAATGC CCTGCAARAA CTTCTTCTGG AAGACCTTCT CTCCTGCAA A 48

SEQ ID NO:69

LENGTH OF THE SEQUENCE: 42

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCCTGCA ARACTTCTT CTGGAAGACC TTCTCCTCCT GCAAA 42

SEQ ID NO:70

LENGTH OF THE SEQUENCE: 36

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAARAAC TCTTCTGGAA GACCTTCTCC TCCTGCAAA 36

SEQ ID NO:71

LENGTH OF THE SEQUENCE: 51

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

GACAGAATGC CCTGCAGGAA CTTCTTCTGG AAGACCTTCT CCACNTGCAA A

51

SEQ ID NO:72

LENGTH OF THE SEQUENCE: 45

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCCTGCA GGAATTCTT CTGGAAGACC TTCACNTCCT GCAAA

45

SEQ ID NO:73

LENGTH OF THE SEQUENCE: 39

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAGGAAC TCTTCTGGAA GACCTTCACN TCCTGCAAA

39

SEQ ID NO:74

LENGTH OF THE SEQUENCE: 48

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

GACAGAATGC CCTGCAGGAA CTTCTTCTGG AAGACCTTCT CCACNTGC

48

SEQ ID NO:75

LENGTH OF THE SEQUENCE: 42

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCCTGCA GGAAC TTCTT CTGGAAGACC TTCACNTCCT GC

42

SEQ ID NO:76

LENGTH OF THE SEQUENCE: 36

36

51

45

SEQ ID NO:79

LENGTH OF THE SEQUENCE: 39

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAARAAC TCTTCTGGAA GACCTTCACN TCCTGCAAA

39

SEQ ID NO:80

LENGTH OF THE SEQUENCE: 48

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

GACAGAATGC CCTGCAARAA CTTCTTCTGG AAGACCTTCT CCACNTGCAA A

48

SEQ ID NO:81

LENGTH OF THE SEQUENCE: 42

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

ATGCCCTGCA ARAACTTCTT CTGGAAGACC TTCACNTCCT GCAAA

42

SEQ ID NO:82

LENGTH OF THE SEQUENCE: 36

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

TGCAARAAC TCTTCTGGAA GACCTTCACN TCCTGC

36

SEQ ID NO:83

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60

TTCTGGAAGA CCTTCTCCTC CTGCAAA

87

SEQ ID NO:84

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60
TTCTGGAAGA CCTTCTCCTC CTGCAAA 87

SEQ ID NO:85

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAGGAAC TTC 60
TTCTGGAAGA CCTTCACNTC CTGCAAA 87

SEQ ID NO:86

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAGGAACTTC 60
TTCTGGAAGA CCTTCACNTC CTGCAAA 87

SEQ ID NO:87

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60
TTCTGGAAGA CCTTCACNTC CTGCAAA 87

SEQ ID NO:88

LENGTH OF THE SEQUENCE: 87

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60
TTCTGGAAGA CCTTCACNTC CTGCAAA 87

SEQ ID NO:89

LENGTH OF THE SEQUENCE: 84

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAARAACTTC 60

TTCTGGAAGA CCTTCTCCTC CTGC 84

SEQ ID NO:90

LENGTH OF THE SEQUENCE: 84

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAARAACTTC 60

TTCTGGAAGA CCTTCTCCTC CTGC 84

SEQ ID NO:91

LENGTH OF THE SEQUENCE: 84

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAGGAACTTC 60
TTCTGGAAGA CCTTCACNTC CTGC 84

SEQ ID NO:92

LENGTH OF THE SEQUENCE: 84

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAGGAACTTC 60
TTCTGGAAGA CCTTCACNTC CTGC 84

SEQ ID NO:93

LENGTH OF THE SEQUENCE: 84

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCCGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60
TTCTGGAAGA CCTTCACNTC CTGC 84

SEQ ID NO:94

LENGTH OF THE SEQUENCE: 84

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Double

TOPOLOGY: Linear

MOLECULE TYPE: cDNA

SEQUENCE

CAGGAAGGCG CACCCCCCA GCAATCTGCG CGCCGGGACA GAATGCCCTG CAARAAC TTC 60
TTCTGGAAGA CCTTCACNTC CTGC 84

SEQ ID NO:95

LENGTH OF THE SEQUENCE: 30

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACCTC AGCTAGGATG TTCCCCAATG 30

SEQ ID NO:96

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACCCG GGCTCAGAGC GTCGTGAT

28

SEQ ID NO:97

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACACC ATGGACATGG CGGATGAG

SEQ ID NO:98

LENGTH OF THE SEQUENCE: 26

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACAGT TCAGATACTG GTTTGG

SEQ ID NO:99

LENGTH OF THE SEQUENCE: 30

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACCTC AACCATGGAC ATGCTTCATC

30

SEQ ID NO:100

LENGTH OF THE SEQUENCE: 29

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACTTT CCCCAGGCCC CTACAGGTA

29

SEQ ID NO:101

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGCTCGAGTC ACCATGAGCG CCCCCTCG

28

SEQ ID NO:102

LENGTH OF THE SEQUENCE: 45

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGGCTCGAGC TCCTCAGAAG GTGGTGG

27

SEQ ID NO:103

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

GGTCGACCAC CATGGAGCCC CTGTTCCC

28

SEQ ID NO:104

LENGTH OF THE SEQUENCE: 26

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

CCGTCGACAC TCTCACAGCT TGCTGG

26

SEQ ID NO:105

LENGTH OF THE SEQUENCE: 28

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

ACAAGATGCC ATTGTCCCCC GGCCTCCT

28

SEQ ID NO:106

LENGTH OF THE SEQUENCE: 27

TYPE OF THE SEQUENCE: Nucleic acid

STRANDEDNESS: Single

TOPOLOGY: Linear

MOLECULE TYPE: Synthetic DNA

SEQUENCE

TTCAGGTCTG TAATTAACT TCGTGA

27

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